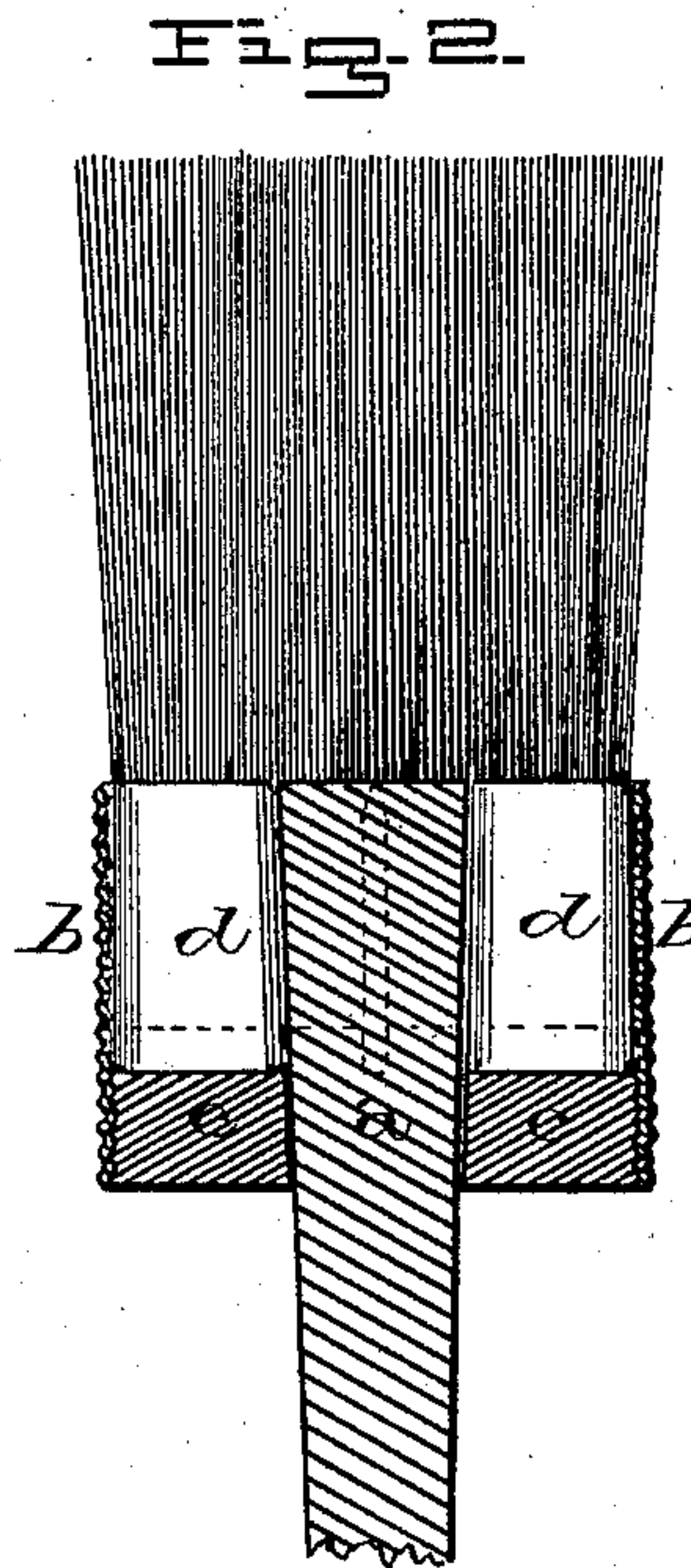
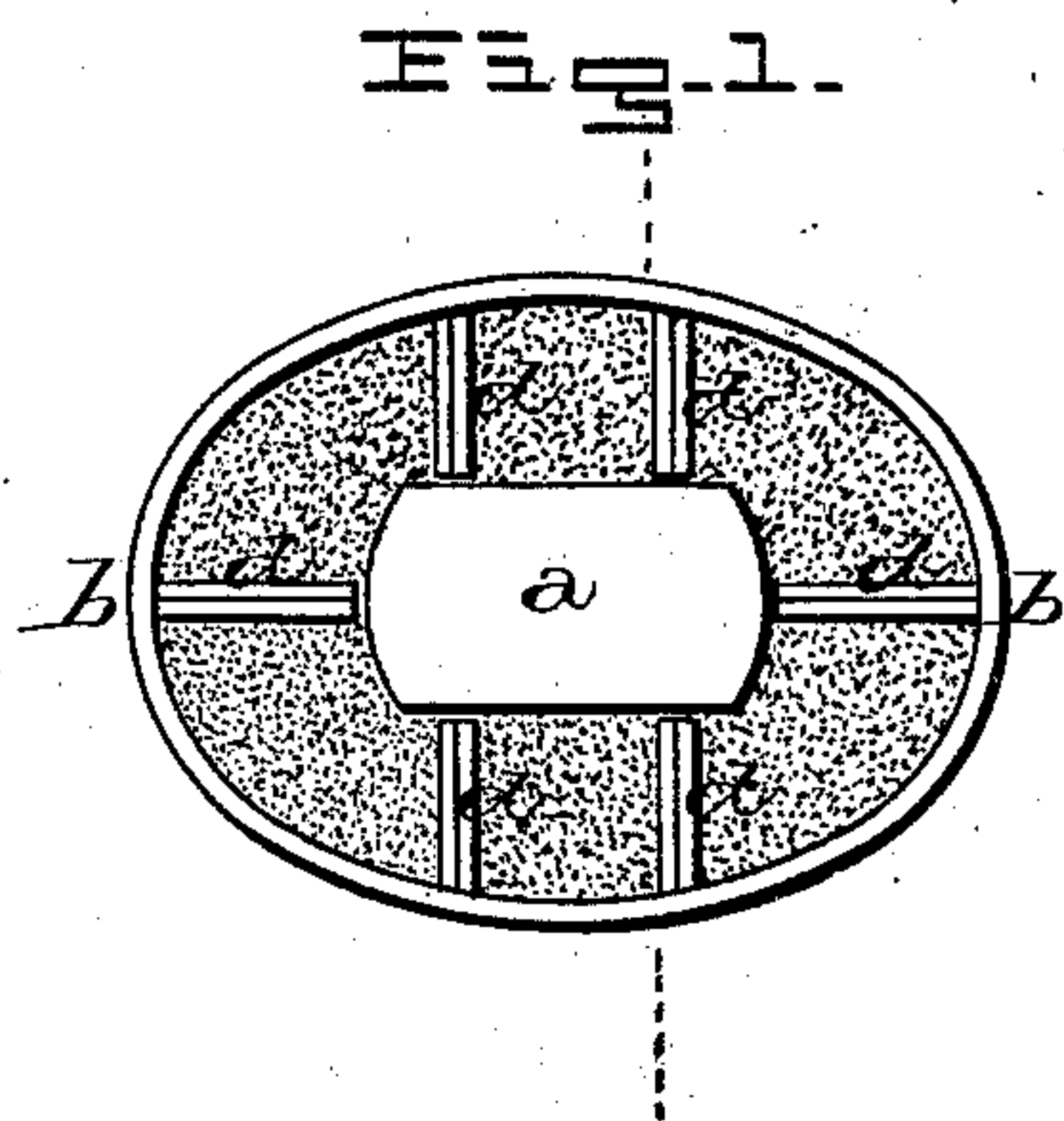


J. S. GILLIGAN.  
Paint-Brush.

No. 203,259.

Patented May 7, 1878.



WITNESSES:

*Jas. F. Duttonell*  
*J. V. Garner*

INVENTOR:

*Jas. S. Gilligan*  
per  
*J. A. Lehmann, Atty*

# UNITED STATES PATENT OFFICE.

JAMES S. GILLIGAN, OF CINCINNATI, OHIO.

## IMPROVEMENT IN PAINT-BRUSHES.

Specification forming part of Letters Patent No. **203,259**, dated May 7, 1878; application filed April 3, 1878.

*To all whom it may concern:*

Be it known that I, JAMES S. GILLIGAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Paint-Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in paint-brushes; and it consists in dividing the space inside of the ferrule into sections by means of radial partitions, so that when the handle is driven into position it will clamp the bristles firmly and securely in place, in such a manner that, should the bristles of any one of the sections become loose, it will not be necessary to lose or throw away the whole brush, as is now generally the case, as will be more fully described hereinafter.

The accompanying drawings represent my invention.

*a* represents the handle, *b* the ferrule, and *c* the block, all of any desired size, shape, or construction that may be preferred. To the lower side of the block *c* are secured, in any suitable manner, a number of partitions or divisions, *d*, all of which extend toward the handle or center of the ferrule, so that the chamber or division formed by it will have its inner end closed by the handle when it is driven into position in the block. The bristles of which the brush is formed are placed in these separate sections, so that each section will be kept entirely separate and distinct from all of the others. After each section has been filled with the bristles or other suitable material, the handle *a*, having its inner end considerably enlarged, is then passed down through the center of the bristles, and driven up through the block *c* as far as it will go. As each one of the sections has its inner end closed by this handle, the bristles in every compartment will be compressed firmly in position in proportion to the tightness with which

the handle is driven into the block and ferrule.

By thus making the sections separate and independent, it is evident that, if the bristles from any one section should become loose, it is not necessary that the other section should become loose also. As the brushes are now generally constructed, as soon as the bristles begin to loosen it becomes loose all around, and the brush has to be thrown away as useless.

I am aware that brushes have been divided into sections, as shown in the patent to White; but in this case the sections have all extended straight across a block instead of radiating from the center, and the consequence is that the bristles will be tightened in position by the handle only in those sections where the sections have their inner sides closed by the handle, while those sections at each end of the handle where they are not closed by the handle will not be effected in the slightest degree by the driving in of the handle. The consequence is that the bristles at each end are not wedged in place, and they soon become loose and fall out, while only those sections that are closed by the handle will keep the bristles in place.

My invention consists in having all of the sections radiate from the center, so that the handle will tighten the bristles in every one.

Having thus described my invention, I claim—

In a paint-brush, the combination of the handle *a*, ferrule *b*, block *c*, and partitions *d*, all the partitions being made to radiate from the center, whereby the act of driving in the handle into position will tighten the bristles in place in every section, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand.

JAMES SYLVESTER GILLIGAN.

Witnesses:

JOHN BUSHMANN,

CHARLES H. WHITAKER.